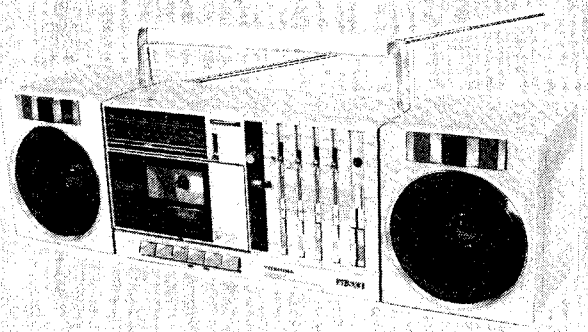
TOSHIBA

STEREO RADIO CASSETTE RECORDER

RT-SX3



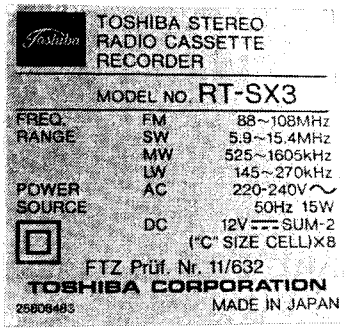
SPECIFICATIONS

Cassette tape used:	Normal: C-30, C-60, C-90, C-120 Chrome: C-46, C-60, C-90 Metal: C-46, C-60
Tape speed:	4.8 cm/sec.
Track system:	Four-track two-channel stereo-phonic
Recording system:	AC bias (85 kHz)
Erasing system:	AC erasing
Frequency response:	Normal: 35 Hz to 13 kHz Chrome: 35 Hz to 15 kHz Metal: 35 Hz to 15 kHz
Receiving frequency:	FM: 88 MHz to 108 MHz SW: 5.9 MHz to 15.4 MHz MW: 525 kHz to 1605 MHz LW: 145 kHz to 270 kHz
Intermediate frequency:	FM: 10.7 MHz LW/MW/SW: 460 kHz
Antenna:	FM/SW: telescopic antenna LW/MW: ferrite-core antenna
Speakers:	120 mm (dia.) dynamic x2 20 mm (dia.) piezo-electric type x 2
Jacks:	[MIC] jack x 2, Impedance 200 ohm to 2K ohm [REC/PB] jack x 1 [SPEAKER] jack x 2, Impedance 3.2 ohm to 8 ohm [PHONES] jack x 1
Power supply:	AC 220V–240V, 50 Hz DC 12V [SUM-2 (R14) "C" size x 8]
Output power:	4W x 2, 10% Distortion
Power consumption:	15W
Dimensions (W x H x D):	539 x 158 x 144 (mm)
Weight:	3.7 kg (without batteries)

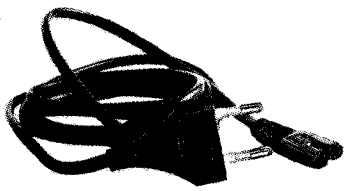
Specifications are subject to change without notice.

TE, TU
PRINTED IN JAPAN 22905214 Aug. 1983 Ⓑ

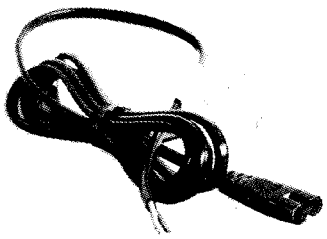
Nameplate



Power Cord

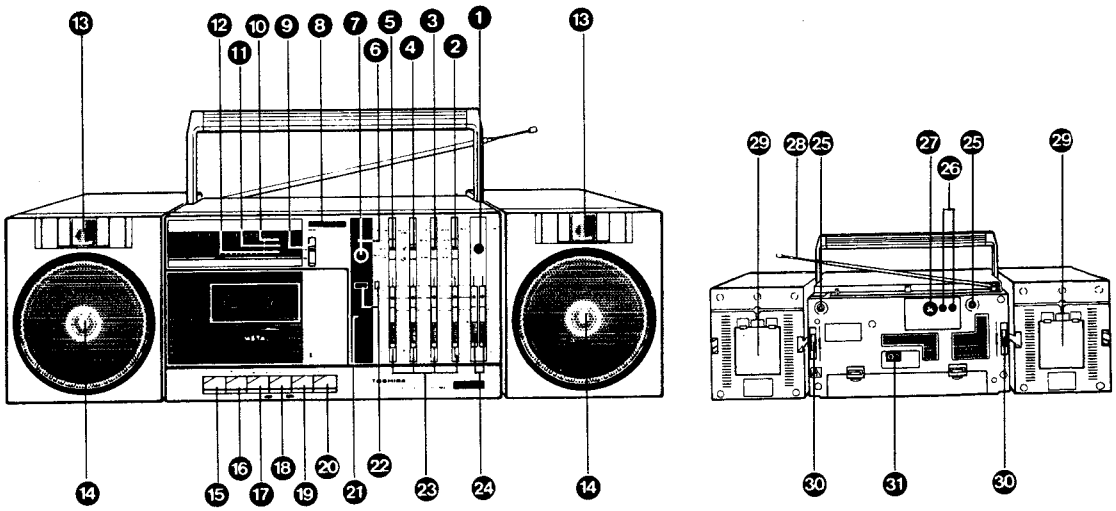


TE



TU

1. OPERATING CONTROLS



❶ **[PHONES] Jack**
❷ **[MODE/BEAT] Selector**
❸ **[TAPE] Selector Switch**
❹ **[MW/AUX SENS/DOLBY NR*] Switch**
* Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation. The word "Dolby" and the "Double-D" symbol are trademarks of Dolby Laboratories Licensing Corporation.
❺ **[FUNCTION] Selector**
Note: In the RADIO OFF /TAPE position the mains power will still be supplied. Therefore, when not in use unplug the cord from the socket.
❻ **Built-in Microphone**
❼ **[FINE TUNING] Knob**
❽ **Tuning Knob**
❾ **[BAND] Selector: FM/SW/MW/LW**
❿ **[BATTERY] Indicator**
⓫ **[FM-ST] Indicator**
⓬ **[TUNING] Indicator**
⓭ **Tweeter Speakers**
⓮ **Woofer Speakers**
⓯ **[STOP/EJECT] Button**
⓰ **[ONE TOUCH RECORD] Button**
⓱ **[REW/REVIEW] Button**
⓲ **[PLAY] Button**
⓳ **[FF/CUE] Button**
⓴ **[PAUSE] Button**
㉑ **Level Meter**
㉒ **Tape Counter/Counter Reset Button**
㉓ **[GRAPHIC EQUALIZER] Controls**
㉔ **[VOLUME] Controls**
㉕ **[SPEAKER] Jacks**
㉖ **[MIC] Jacks**
㉗ **[REC/PB] Jack**
㉘ **Telescopic Antenna**
㉙ **Speaker Cord Compartment Lid**
㉚ **Speaker Box Lock Lever**
㉛ **[AC POWER] Socket**

2. DISASSEMBLY INSTRUCTIONS

FRONT CABINET REMOVAL

1. Pull out seven knobs (A) as shown Figure.
2. Open the cassette cover by pressing the Stop/Eject button.
3. Unscrew five screws (B) and separate the front cabinet from the back cabinet.

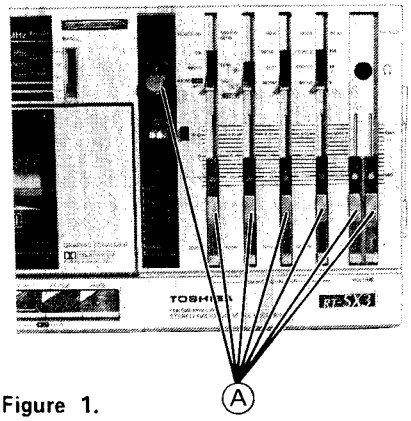
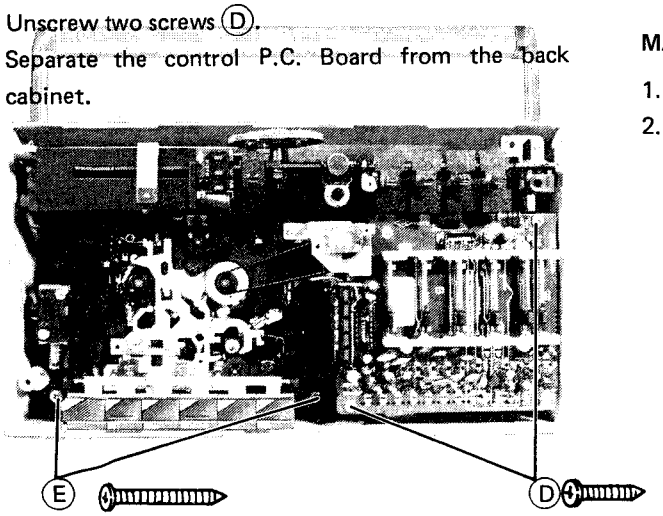


Figure 1.

CONTROL P.C. BOARD REMOVAL

1. Unscrew two screws (D).
2. Separate the control P.C. Board from the back cabinet.



Screw, DTBID Hd. Tapping 3d x 20mmℓ, RED

Screw DTBID Hd. Tapping 3d x 16mmℓ, RED

Figure 3.

POWER SUPPLY P.C. BOARD REMOVAL

1. Unscrew two screws (G) and one screw (H).
2. Lift up the Power Supply P.C. Board from the back cabinet.

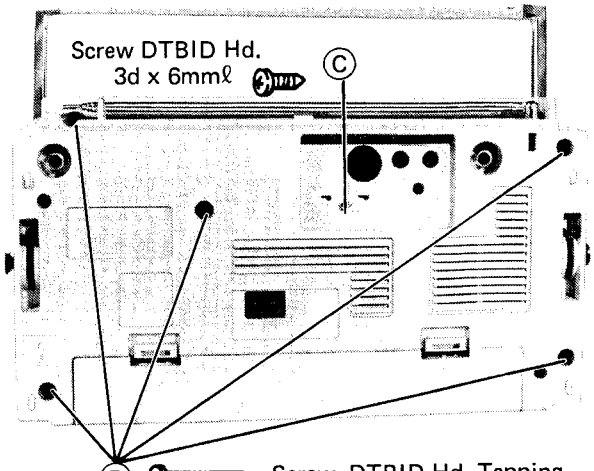


Figure 2. Screw, DTBID Hd. Tapping 3d x 35mmℓ, BLK

CASSETTE MECHANISM ASS'Y REMOVAL

1. Unscrew two screws (E) and disconnect two connectors (F).
2. Separate the Cassette Mechanism Ass'y from the back cabinet.

MAIN P.C. BOARD REMOVAL

1. Unscrew one screw (C) in the back cabinet.
2. Lift up the Main P.C. Board from the back cabinet.

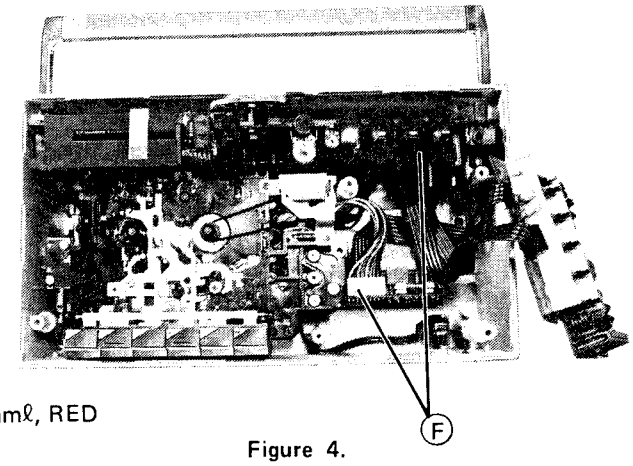


Figure 4.

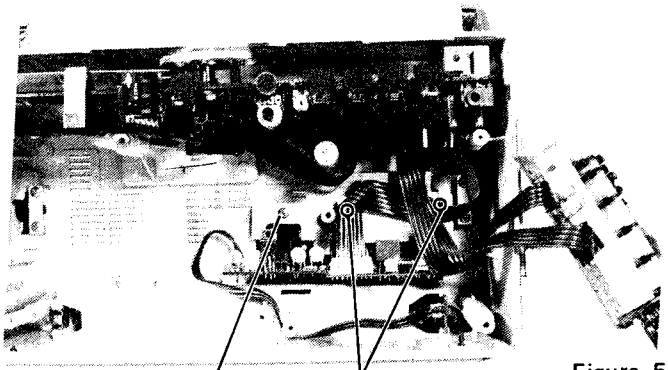


Figure 5.

Screw DTBID Hd. Tapping 3d x 8mmℓ

H

G Screw, DTBID Hd. Tapping

3. HANDLE REMOVAL

When replacing the handle, remove it by cutting the handle washer shown in figure below.

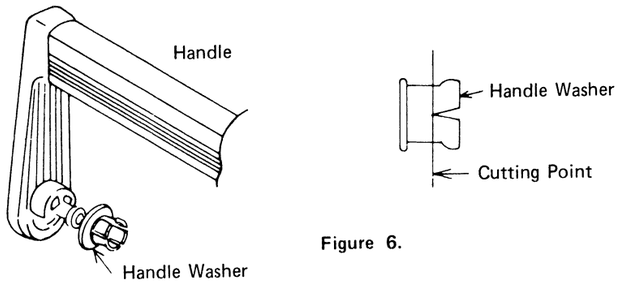


Figure 6.

4. METHOD OF P.R.C. REPAIRING

Cut defective printed-resistor-circuit off with knife. See Figure 7. Solder the replacement resistor (See replacement resistor parts list) on the opposite side of printed-circuit-board. See Figure 8.

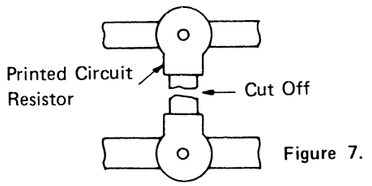


Figure 7.

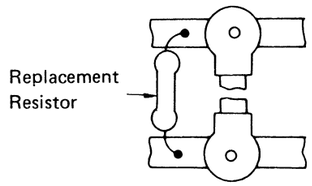


Figure 8.

5. DIAL CORD RESTRINGING

DIAL CORD RESTRINGING

1. Pass the dial cord through the spring after tying it.
2. Insert the dial cord to the hole of drum. (Not hook the spring to the drum.)
3. Turn the shaft of variable capacitor fully counterclockwise.
4. Fix the drum to the variable capacitor with screws.
5. Wind the dial cord ① to ⑥ in numerical order.
6. Adjust the pointer to the "0" position of dial plate.

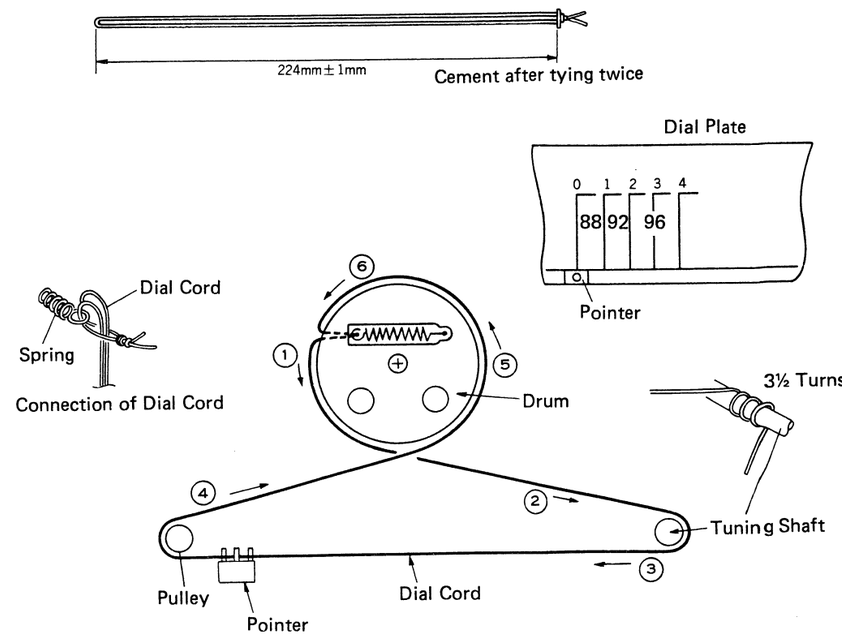


Figure 9.

6. ALIGNMENT INSTRUCTIONS

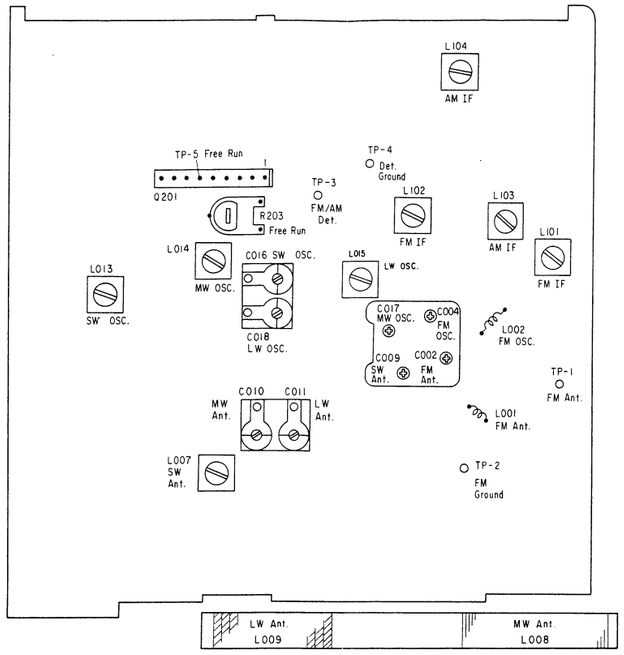


Figure 10.

TEST EQUIPMENT

1. Signal generator with a frequency range of at least from 140 kHz to 18 MHz AM.
2. Oscilloscope with a side range amplifier of approximately 100 kHz.
3. Test loop – a coil of any size wire, one turn or more. (LW & MW).
4. A 30 ohm dummy antenna. (SW)
5. VTVM

AM ALIGNMENT

1. Turn on the AM signal generator and the VTVM allowing a fifteen-minute warm-up period.
2. Using the test loop across the output of the signal generator, inductively connect the signal generator to the radio.
3. Connect the VTVM across the voice coil or a 3.2 ohm dummy load.
4. Set signal generator frequency as listed in ALIGNMENT CHART and maintain a sufficient output level to provide an indication on VTVM.
5. Set volume control at mid-position.
6. Proceed as outlined in the IF-LW, MW and SW ALIGNMENT CHART.

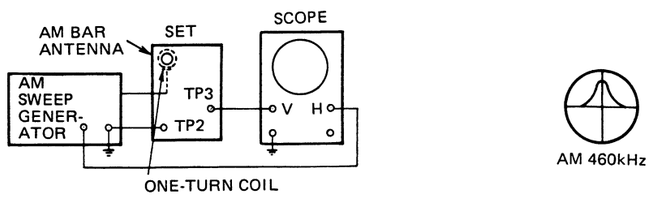


Figure 11.

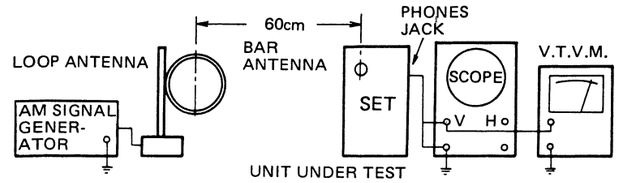


Figure 12.

MW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
IF	1	460 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	L103, L104	Adjust for maximum indication.
MW	2	510 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L014 (MW)	Adjust for maximum indication.
	3	1650 kHz	Tuning Gang Fully clockwise (Highest Frequency)	OSC. Trim C017	Adjust for maximum indication.
	4	Repeat steps 2 and 3 as required.			
	5	600 kHz	Tune to Signal.	Ant. Coil L008 (MW)	Adjust for maximum indication.
	6	1400 kHz	Tune to Signal.	Ant. Trim. C010	Adjust for maximum indication.
	7	Repeat steps 5 and 6 as required.			

LW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
LW	1	142 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L015	Adjust for maximum indication.
	2	280 kHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C018	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	160 kHz	Tune to Signal.	Ant. Coil L009	Adjust for maximum indication.
	5	280 kHz	Tune to Signal.	Ant. Trim. C011	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

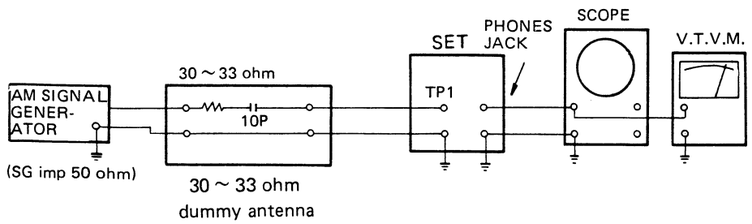


Figure 13.

SW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
SW	1	5.75 MHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L013	Adjust for maximum
	2	16 MHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C016	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	6.5 MHz	Tune to Signal.	Ant. Coil L007	Adjust for maximum indication.
	5	14 MHz	No Adjustment	Ant. Trim. C009	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

FM-IF ALIGNMENT

1. Set the select switch to FM position.
2. Turn on both sweep generator and oscilloscope, and allow a fifteen-minute warm-up period.
3. Connect the RF SWEEP SIGNAL OUTPUT from the signal generator through the loop antenna to the receiver.
4. Connect the oscilloscope vertical input directly to the test point 3 and connect the shielded lead to the test point E or chassis ground.
5. Connect the SWEEP VOLTAGE OUTPUT of the sweep generator to the oscilloscope.
6. Proceed as outlined in the FM-IF ALIGNMENT CHART.

FM-IF ALIGNMENT CHART

Step					Adjust. point	
1	Connect sweep generator output to a three-turn loop antenna of 10cm diameter.	Sweep generator of 10.7 MHz center freq. with 10.7 MHz marker.	Tuning Knob fully counter-clockwise (Lowest Frequency.)	Set scope for connecting output signal from TP3 to vertical axis of scope "V" and sweep generator output to horizontal axis "H".	L101 L102	Turn the IF Transformer L102 fully counterclockwise to obtain a single peak. Adjust coil L101 in order until the best single peak is obtained. Figure 15. Finally turn the coil L102 to obtain S curve. See Figure 16.

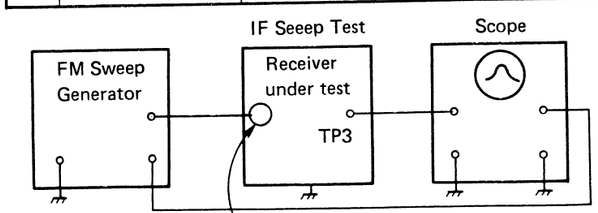


Figure 14.

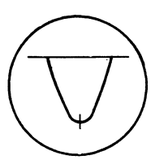


Figure 15.

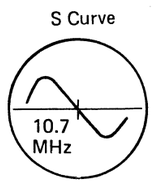


Figure 16.

FM-RF ALIGNMENT

1. Turn on the signal generator and the VTVM, and allow a fifteen-minute warm-up period.
2. Connect the signal generator output through a 75 ohm dummy antenna across FM ANT.
3. Connect the VTVM across the voice coil or a 3.2 ohm dummy load.
4. Set the volume control to mid-position.

5. Adjust the signal generator frequency as indicated in FM-RF ALIGNMENT CHART, and maintain a sufficient signal output level to provide a measurable indication.
6. Proceed as outlined in the FM-RM ALIGNMENT CHART.

FM-RF ALIGNMENT CHART

Step	Signal Generator	Radio Dial Setting	Adjustment	Remarks
1	87.5 MHz	Tuning Knob fully Counterclockwise (Lowest Frequency)	OSC. Coil L002	Adjust for maximum output indication
2	108 MHz	Tuning Knob fully Clockwise (Highest Frequency)	OSC. Trim. C004	Adjust for maximum output indication
3	Repeat steps 1 and 2 as required.			
4	90 MHz	Tune to signal	Ant. Coil L001	Adjust for maximum output indication
5	106 MHz		Ant. Trim. C002	
6	Repeat steps 4 and 5 as required.			

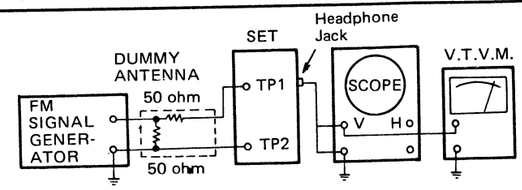


Figure 17.

FREE RUN FREQUENCY ALIGNMENT

Adjust R203 under no signal condition so as to obtain 38 kHz ± 75 Hz.

CAUTION:

When realigning the FM Receiving Frequency, the highest end of the frequency range should not be move than 108 MHz and the lowest end of the frequency range should not be less than 87.5 MHz, in order to comply with FTZ regulations in West Germany.

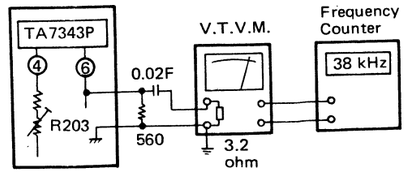
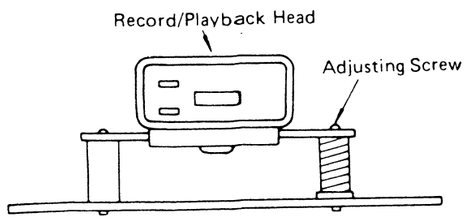


Figure 18.

RECORD/PLAYBACK HEAD ADJUSTMENT

A 6.3 kHz test tape must be used for this adjustment. Connect a VTVM or an oscilloscope to the headphones jack or speaker terminal and adjust the azimuth by using a phillips screwdriver to maintain the maximum output voltage.



Record/Playback Head Adjustment

Figure 19.

TAKE-UP/SUPPLY REEL TENSION

1. Insert cassette torque meter (HARTAK X-87 Torquette).
2. Press PLAY button and read torque meter. Torque should be 30 to 60 gcm.
3. Release PLAY button and press REWIND button. Torque should be 75 to 135 gcm. If necessary, clean take-up reel or drive belt with alcohol, or replace belt.

7. ELECTRICAL PARTS LOCATIONS

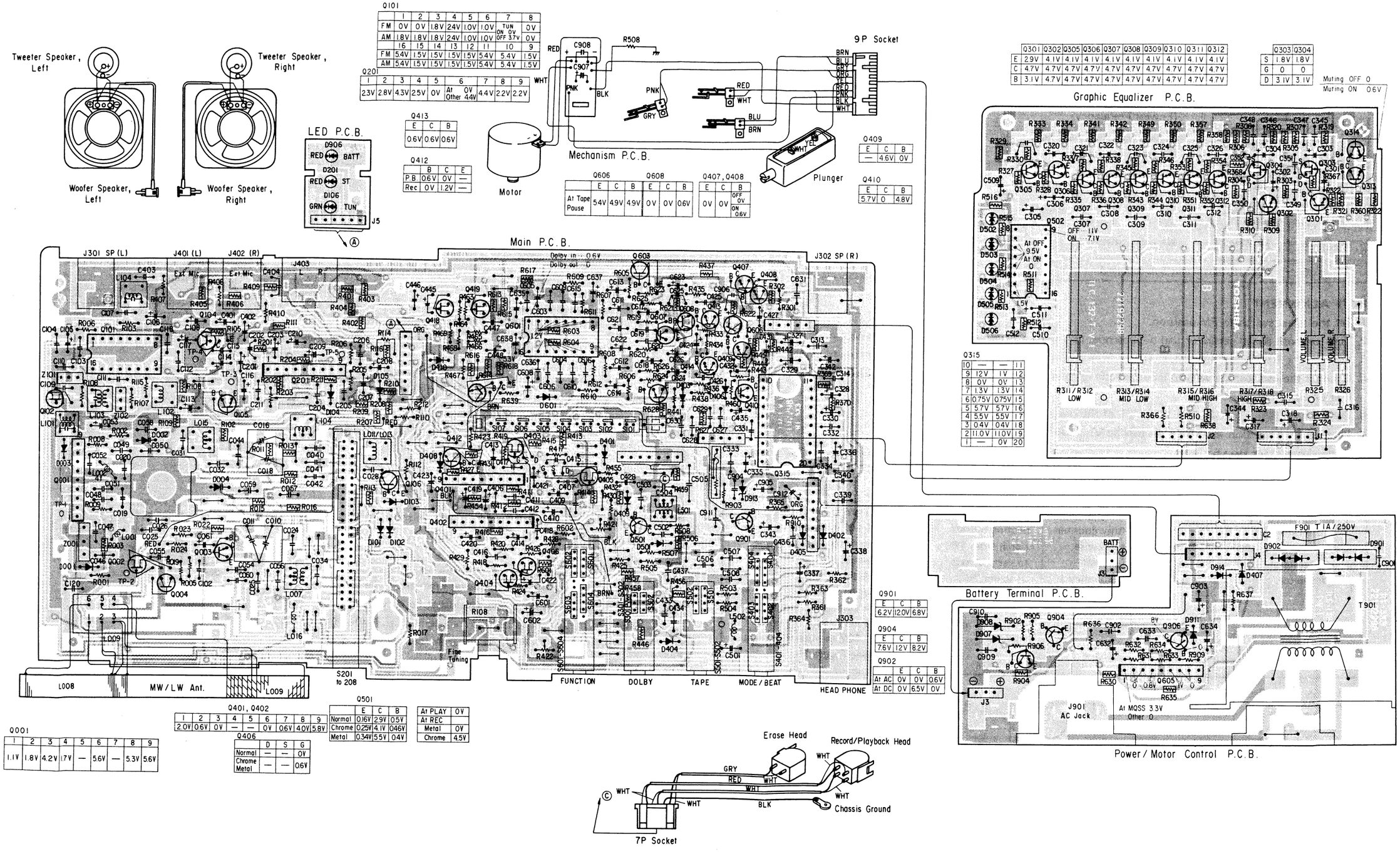
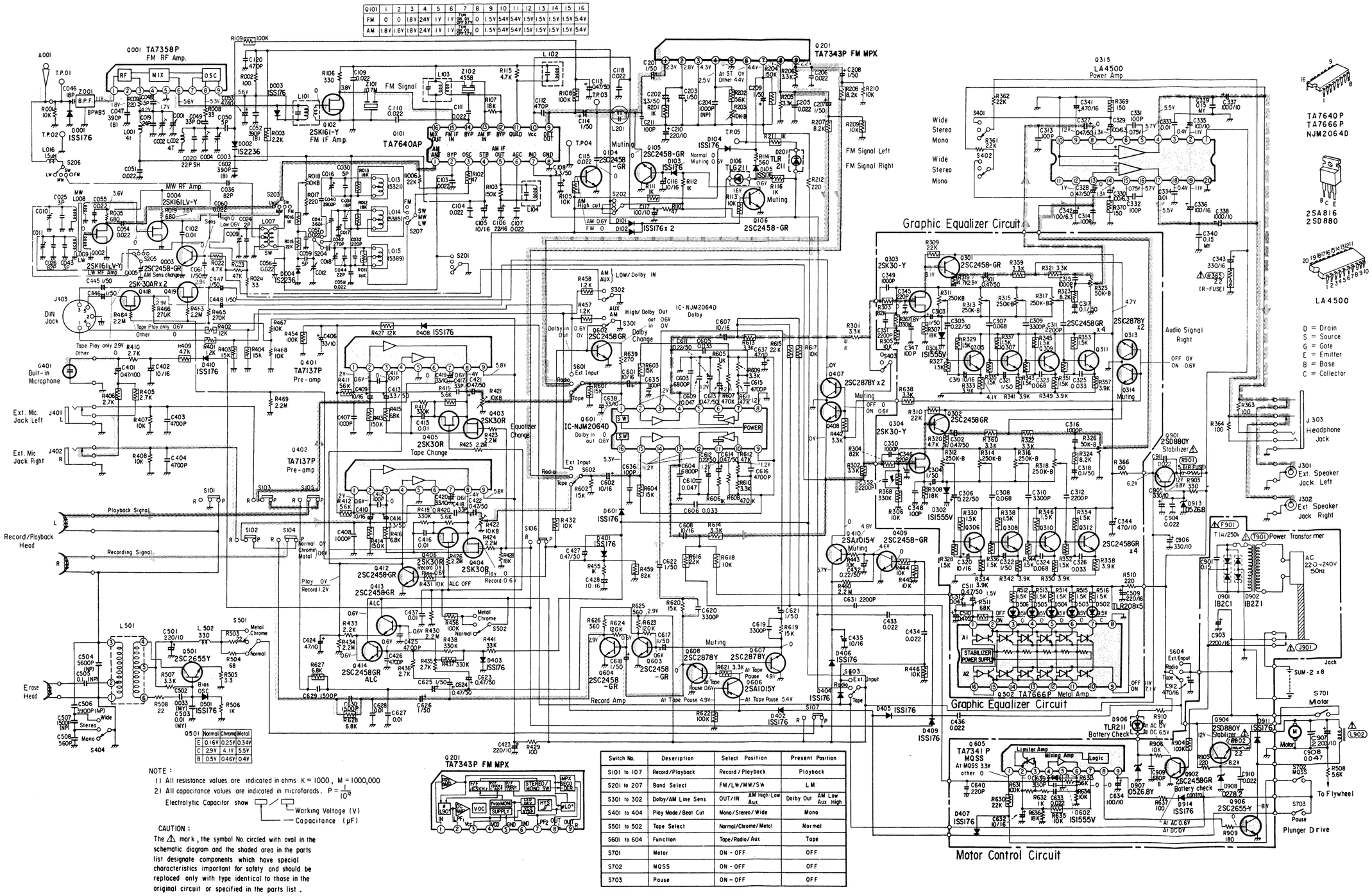


Figure 20.

8. SCHEMATIC DIAGRAM



Q101	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FM	0	0	1.8V	2.4V	1V	1V	TUN ON 2.7V OFF 0V	0	1.5V	5.4V	5.4V	1.5V	1.5V	1.5V	1.5V	5.4V
AM	1.8V	1.8V	1.8V	2.4V	1V	1V	TUN ON 2.7V OFF 0V	0	1.5V	5.4V	5.4V	1.5V	1.5V	1.5V	1.5V	5.4V

Switch No.	Description	Select Position	Present Position
S101 to 107	Record/Playback	Record / Playback	Playback
S201 to 207	Band Select	FM/LW/MW/SW	L M
S301 to 302	Dolby/AM Line Sens	OUT/IN / AM High-Low Aux	Dolby Out / AM Low Aux High
S401 to 404	Play Mode/Beat Cut	Mono/Stereo/Wide	Mono
S501 to 502	Tape Select	Normal/Chrome/Metal	Normal
S601 to 604	Function	Tape/Radio/Aux	Tape
S701	Motor	ON - OFF	OFF
S702	MOSS	ON - OFF	OFF
S703	Pause	ON - OFF	OFF

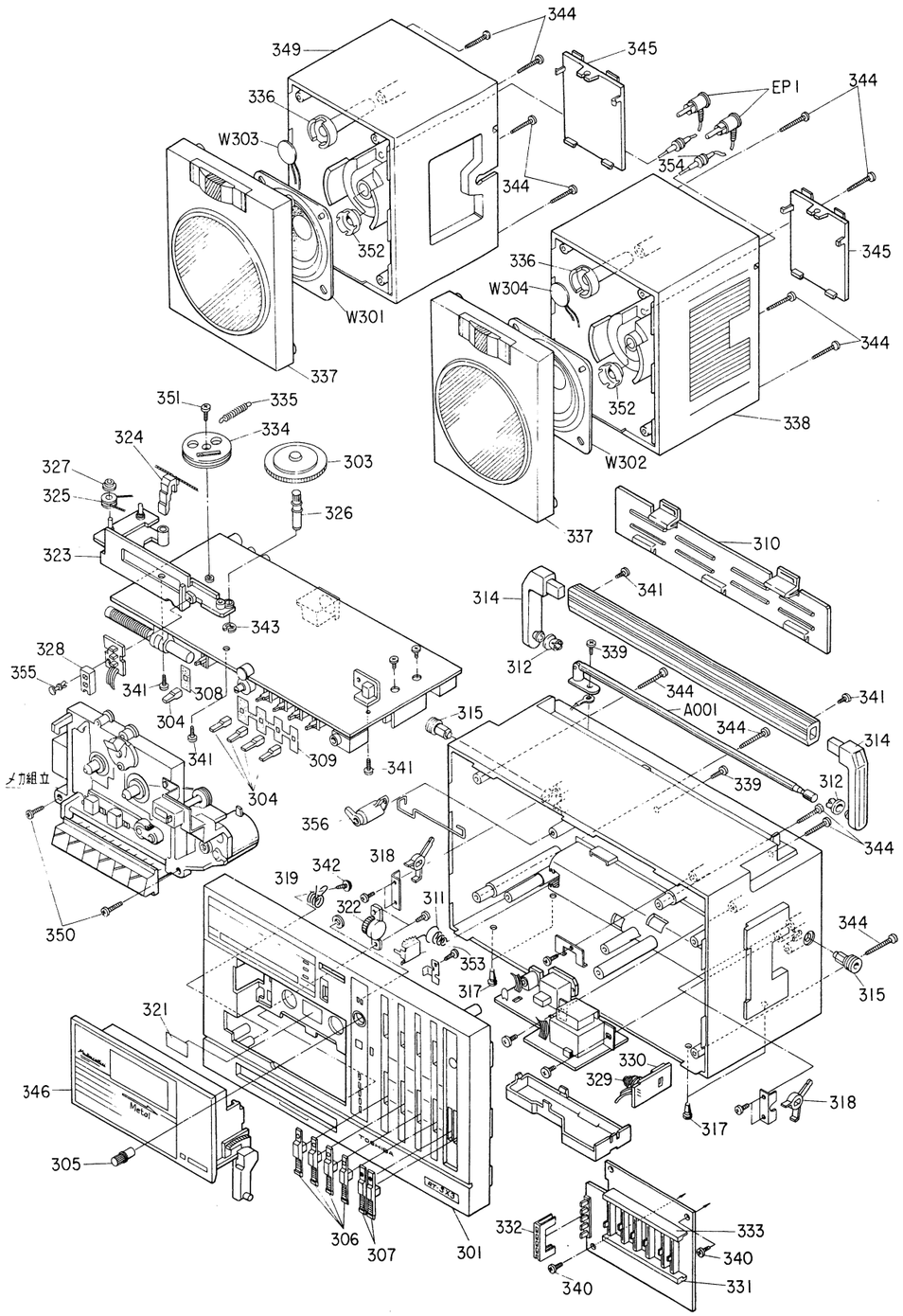
Q501	Normal	Chrome	Metal
E	0.16V	0.25V	0.34V
C	2.9V	4.1V	5.5V
B	0.5V	0.46V	0.4V

NOTE :
1) All resistance values are indicated in ohms K = 1000, M = 1000,000
2) All capacitance values are indicated in microfarads. P = 1/10^12
Electrolytic Capacitor show — Working Voltage (V) — Capacitance (μF)

CAUTION :
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with type identical to those in the original circuit or specified in the parts list.

Figure 21.

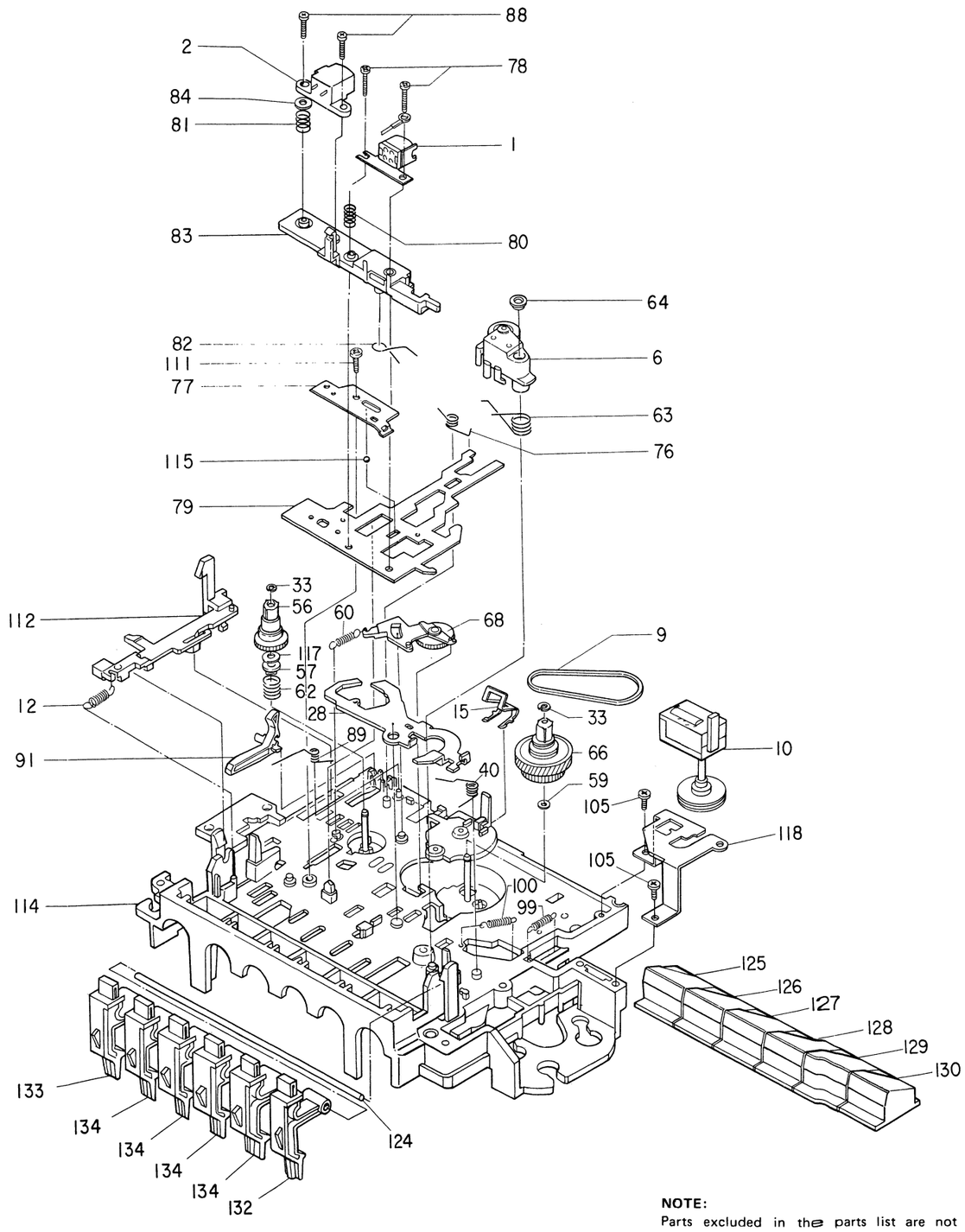
9. CABINET EXPLODED VIEW



NOTE:
Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Figure 22

10-1. MECHANISM EXPLODED VIEW (UPPER)



NOTE:
Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Figure 23.

10-2. MECHANISM EXPLODED VIEW (LOWER)

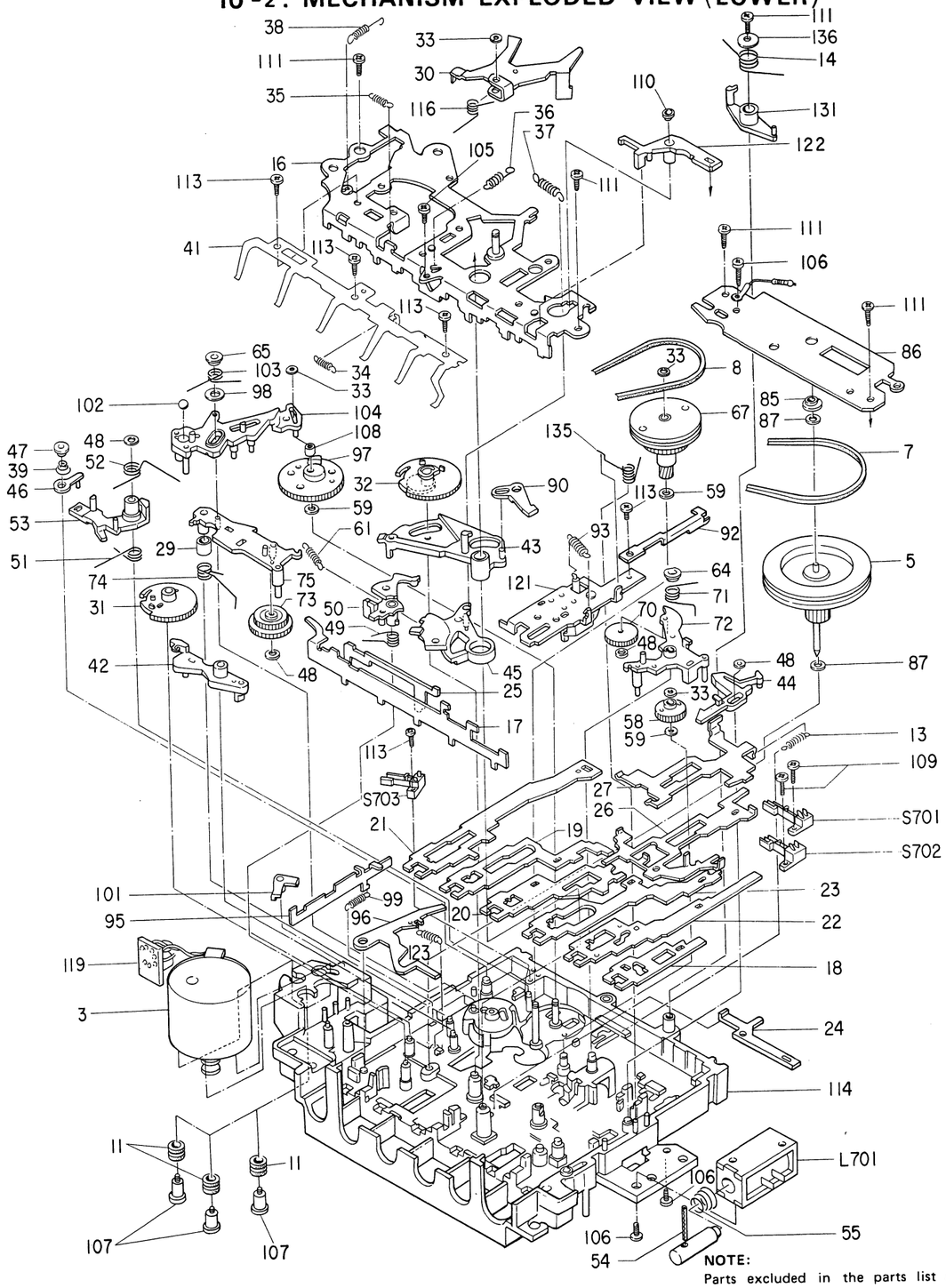


Figure 24.

NOTE:
Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

11. PARTS LIST (MECHANISM AND CABINET)

Symbol No.	Part No.	Description
		CASSETTE MECHANISM PARTS
1	22217406	Head, Record/Playback, HRPT-406
2	22218249	Head, Erase, HET-65
3	25791642	Motor Ass'y
5	25717575	Flywheel Ass'y
6	25717533	Pressure Roller
7	25755548	Belt, Drive
8	25755549	Belt, Center
9	25755581	Belt, Counter
10	25873278	Counter
11	25761327	Cushion, Motor
12	25776484	Spring
13	25776487	Spring
14	25778122	Spring, Recording
15	25779298	Spring, Holder
18	25741943	Operation Plate, Stop
19	25741944	Operation Plate, F.F.
20	25741945	Operation Plate, Play
21	25741946	Operation Plate, Pause
22	25741998	Operation Plate, Record
23	25741948	Operation Plate, Rewind
28	25748919	Lever, Cue
30	25748927	Lever, Release
31	25756374	Cam Gear, Pause
32	25756373	Cam Gear, Play
33	25764549	Washer
34	25776488	Spring
35	25776489	Spring
37	25776494	Spring
38	25776521	Spring
39	25777182	Spring, Pause Lock Lever
40	25778040	Spring, Cue Lever
41	25779278	Spring, Operation Plate
42	25782546	Lever, Pause Drive
43	25782549	Lever, Play Drive
44	25782552	Lever, Select
45	25784085	Lever, Gear Lock
46	25782560	Lever, Pause Lock
47	25783211	Bushing
48	25783239	Bushing
49	25778048	Spring, Pause Gear Lock Lever
50	25782554	Lever, Pause Gear Lock
51	25778047	Spring, ASO Pause Lever
52	25778049	Spring, Cue Support
53	25782543	Lever, ASO Pause
54	25727270	Spring Pin, Plunger
55	25777138	Spring, Plunger
56	25754425	Reel Plate, Supply
57	25754439	Spacer
58	25756375	Gear, REW
59	25766112	Washer

Symbol No.	Part No.	Description
60	25776482	Spring
61	25776492	Spring
62	25777144	Spring
63	25778042	Spring, Pressure Roller
64	25783260	Bushing, Black
65	25783226	Bushing
66	25712423	Reel Plate, Ass'y, Take-up
67	25713561	Center Clutch Ass'y
68	25712428	Take-up Gear Ass'y
70	25756304	REW Gear
71	25778045	Spring, REW Lever
72	25784084	Lever, REW
73	25756306	Gear F.F.
74	25778044	Spring, F.F. Lever
75	25782548	Lever, F.F.
78	22707833	Screw, Special
80	25777137	Spring, Azimuth
82	25778043	Spring, Head Mtg.
83	25781259	Head Mtg. Plate
85	25725340	Holder, Flywheel
87	25766043	Washer
89	25778039	Spring, REC Lock Lever
90	25782545	Lever, Recording
91	25782557	Lever, REC Lock
92	25749021	Slider, REC
93	25776481	Spring
94	25782544	Lever, REC
97	25756310	Gear, ASO
98	25766073	Washer
99	25776490	Spring
100	25776491	Spring
101	25782561	Lever, ASO Link
102	25757130	Steel Ball, 5mmd
103	25778046	Spring, ASO Detect
104	25782550	Lever, ASO Detect
105	22707299	Screw, BID Hd. Tapping, 2d x 8mmℓ
106	22707494	Screw, DTBID Hd. Tapping, 2.6d x 4mmℓ
107	22707747	Screw, Special, Motor
109	22707870	Screw, PAN Hd. Tapping, 2d x 8mmℓ
111	22707301	Screw, BID Hd. Tapping, 2.6d x 8mmℓ
112	25784080	Eject Slider
113	22707426	Screw, DTBID Hd., 2d x 5mmℓ
114	25791612	Main Chassis Ass'y
115	25757129	Steel Ball
116	25778079	Spring
117	25764597	Washer
122	25782553	Lever, Detect
123	25776526	Spring
125	25886003	Push Button, Stop

Symbol No.	Part No.	Description
126	25886004	Push Button, Record
127	25886005	Push Button, Rewind
128	25886006	Push Button, Play
129	25886007	Push Button, F.F.
130	25886008	Push Button, Pause
131	25784081	Lever, Recording
132	25784079	Lever, Pause Operation
133	25784078	Lever, Stop Operation
134	25784077	Lever, Operation
135	25778128	Spring, Record Slider
		CABINET PARTS
301	25881792	Front Cabinet Ass'y
302	25881793	Back Cabinet Ass'y
303	25837992	Knob, Tuning
304	25837993	Knob, Lever Switch
305	25837994	Knob
306	25837995	Knob, Tone
307	25837996	Knob, Volume
308	25857178	Cover, Switch
309	25857195	Cover, Switch
310	25883044	Cover Ass'y, Battery
311	22771355	Spring, Battery
312	25825250	Bushing, Handle
313	25825283	Handle
314	25835518	Holder, Handle
315	25848026	Lock Pin, Back Cabinet
317	25858408	Cushion, Speaker Box
318	25886019	Lock Knob
319	25778057	Spring, Cassette
321	25824247	Reflector, Front Cabinet
322	25881764	Damper Ass'y, Cassette Cover
323	22714245	Frame
324	22741427	Pointer
325	22742162	Pulley
326	22743322	Tuning Shaft
327	25783195	Bushing
328	25844230	Holder, LED, 3P
329	25777241	Spring, Battery
330	25779336	Contact, Battery
331	25844228	Volume Guide
332	25844229	Holder, LED, 5P
333	25844234	Volume Guide
334	22742300	Drum
335	25776604	Spring, Drum
336	25844227	Holder, Tweeter Speaker
337	25881790	Front Speaker Box Ass'y
338	25883100	Back Speaker Box Ass'y, Right
339	22707801	Screw, DTBID Hd. Tapping, 3d x 12mmℓ
340	22707826	Screw, DTBID Hd. Tapping, 3d x 10mmℓ
341	22707846	Screw, DTBID Hd. Tapping, 3d x 8mmℓ, Chrome Plated
342	22707852	Screw, DTBID Hd. Tapping, 3d x 12mmℓ with Washer
343	22703279	Retaining Ring, 3mmd
344	22707810	Screw, DTBID Hd. Tapping, 3d x 35mmℓ, Black
345	25882333	Cord Cover
346	25883110	Cassette Holder Ass'y
349	25883099	Back Speaker Box Ass'y, Left
350	22707805	Screw, DTBID Hd., 3d x 20mmℓ, Red
351	22707670	Screw, PAN Hd., 1.7d x 4mmℓ, Drum
352	25857039	Cushion, Speaker Box
353	25839204	Battery Contact
354	20881296	Cord Bush
355	22705022	Plastic Livet, 3d x 5.5mmℓ
356	25784088	Lever, Recording
357	25808483	Nameplate, Main, TU/TE

12. PARTS LIST

CAUTION: The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
		TRANSISTORS, ICS & DIODES
Q001	B0325500	IC, TA7358P
Q002, 102	A6042639	Transistor, 2SK161-Y
Q003, 104 ~ 106, 301, 302, 305 ~ 312, 409, 412 ~ 414, 602 ~ 604, 902	A6332459	Transistor, 2SC2458-GR
Q101	B0356385	IC, TA7640AP
Q201	B0325350	IC, TA7343P
Q303, 304,	A6048310	Transistor, 2SK30A-TM-R
Q403 ~ 406, 418, 419	A6048370	Transistor, 2SK30A-TM-GR
Q313, 314, 407, 408, 607, 608	A6342210	Transistor, 2SC2878-B
Q315	22117210	IC, LA4500
Q401, 402	B031251A	IC, TA7137P-ST-Y
Q410, 606	A6534040	Transistor, 2SA1015-Y
Q502	B0356660	IC, TA7666P
Q601	22117209	IC, NJM2064D
Q605	B0325320	IC, TA7341P
Q901, 904	A6848520	Transistor, 2SD880-Y
D001, 003, 101 ~ 105, 401 ~ 410, 501, 601, 911, 914	A7160571	Diode, 1SS176
D002, 004	A7289000	Diode, 1S2236
D106	A8606700	Diode, LED, TLG211
D201, 906	A8603170	Diode, LED, TLR211
D502 ~ 506	A8603141	Diode, LED, TLR208
⚠ D901	A7682016	Diode, 1B2C1
⚠ D902	A7682055	Diode, 1B2Z1
D907, 913	A7110115	Zener Diode, 25Z6.8Y
D908	A7286700	Zener Diode, 02Z8.2A
D602	A7246703	Diode, 1S1555V
		COILS & TRANSFORMERS
L001	22294494	Coil, Antenna, FM
L002	22294493	Coil, Oscillator, FM
L007	22282240	Coil, Antenna, SW
L008	22242954	Coil, Antenna, MW
L013	22285321	Coil, Oscillator, SW
L014	22245385	Coil, Oscillator, MW

Symbol No.	Part No.	Description
L015	22245389	Coil, Oscillator, LW
L016	22291103	Coil, Choke
L101	22265821	IF Transformer, FM
L102	22265822	IF Transformer, FM
L103	22264837	IF Transformer, AM
L104	22264838	IF Transformer, AM
L201	22241066	Coil, Trap
L501	22215121	Coil, Oscillator, Tape
L502	22241062	Coil, Choke
⚠ L902	22147243	Coil, Solenoid
⚠ T901	22224224	Power Transformer
		ELECTRICAL PARTS
S101 ~ 107	22196296	Switch, Slide, Record/Playback
S201 ~ 202	22196240	Switch, Lever, AM/FM
S301 ~ 302	22196292	Switch, Lever, Dolby/AM, Line Sensitivity
S401 ~ 404	22196238	Switch, Lever, Mono-Stereo-Wide
S601 ~ 604		Tape-Radio-Ext. Input
S501 ~ 502	22196293	Switch, Lever, Normal-Chrome-Metal
S701	22196064	Switch, Leaf, Motor
S702, 703	22196063	Switch, Leaf, Pause, MOSS
J301, 302	22198020	Jack, US1P, Ext. Speaker
J303	22198015	Jack, 3.5mmd, Headphone
J401, 402	22198016	Jack, 3.5mmd, Ext. Microphone L/R
J403	22167975	Jack, DIN
⚠ J901	22169031	AC Jack, 2P
⚠ F901	22144337	Fuse, 1A/250V, Time Lug
Z001	22153121	Bypass Filter, FM
Z101	22153249	Filter, Ceramic, 10.7 MHz
Z102	22153083	Filter, Ceramic, AM
A001	22124710	Rod Antenna
W301, 302	22152406	Speaker, Woofer, 12cm
W303, 304	22152452	Speaker, Tweeter, 2cm
G401	22154233	Built-in Microphone
EP01	22166505	Speaker Cord Pin
EP02	22165047	Holder, Fuse

Symbol No.	Part No.	Description
		CAPACITORS
		Voltage Ratings of Ceramic and Plastic Capacitor are 50V DC unless otherwise noted.
		D = ±0.5pF, J = ±5%, K = ±10%, M = ±20%, Z = –20+80%
		ABBREVIATIONS: CD = Ceramic Disk, PF = Plastic Film, EL = Electrolytic
C001, 002, 003, 004, 005, 007, 012, 015, 017	22308434	Variable Capacitor
C010/011	22309184	Trimmer, MW/SW1 Ant.
C016/018	22309184	Trimmer, MW/SW2 Osc.
C019	22361240	CD, 24pF, J
C020	22360160	CD, 22pF, TH
C022	22361509	CD, 5pF, D
C023	22361309	CD, 3pF, D
C024	22361209	CD, 2pF, D
C025	22361309	CD, 3pF, D
C026	22362820	CD, 82pF, K
C028	22361509	CD, 5pF, D
C029	22361309	CD, 3pF, D
C030	22361509	CD, 5pF, D
C031	22361180	CD, 18pF, J
C032	22349221	CD, 220pF, K
C036	22362820	CD, 82pF, K
C040	22321039	CD, 3900pF, K
C041	22321050	CD, 360pF, K
C042	22321025	CD, 270pF, K
C043	22361309	CD, 3pF, D
C044	22361220	CD, 22pF, J
C046	22362180	CD, 18pF, K
C047	22349391	CD, 390pF, K
C048	22361509	CD, 5pF, D
C049	22360136	CD, 33pF, J
C050	22361509	CD, 5pF, D
C051	22360329	CD, 0.022mfd, M, 25V
C052	22349391	CD, 390pF, K
C053	22483470	EL, 47mfd, 10V
C054	22342223	CD, 0.022mfd, Z
C055	22342223	CD, 0.022mfd, Z
C056	22342223	CD, 0.022mfd, Z
C057, 058	22342223	CD, 0.022mfd, Z
C059	22361509	CD, 5pF, D
C060	22342223	CD, 0.022mfd, Z
C061	22488109	EL, 1mfd, 50V
C062	22349391	CD, 390pF, K
C102	22343103	CD, 0.01mfd, M
C103, 104	22342223	CD, 0.022mfd, Z
C105	22485100	EL, 10mfd, 16V
C106	22485220	EL, 22mfd, 16V
C107	22342223	CD, 0.022mfd, Z

Symbol No.	Part No.	Description
C108	22488339	EL, 3.3mfd, 50V
C109, 110	22342223	CD, 0.022mfd, Z
C111	22342223	CD, 0.022mfd, Z
C112	22349471	CD, 470pF, K
C113	22488478	EL, 0.47mfd, 50V
C114	22488109	EL, 1mfd, 50V
C115	22342223	CD, 0.022mfd, Z
C116	22485100	EL, 10mfd, 16V
C117	22483101	EL, 100mfd, 10V
C118	22342223	CD, 0.022mfd, Z
C120	22349471	CD, 470pF, K
C201	22488109	EL, 1mfd, 50V
C202	22488339	EL, 3.3mfd, 50V
C203	22488109	EL, 1mfd, 50V
C204	22321032	PF, 1000pF, K
C205, 206	22342223	CD, 0.022mfd, Z
C207, 208	22488109	EL, 1mfd, 50V
C209	22488109	EL, 1mfd, 50V
C210	22483221	EL, 220mfd, 10V
C211	22362101	CD, 100pF, K
C301, 302	22488478	EL, 0.47mfd, 50V
C303, 304	22488109	EL, 1mfd, 50V
C305, 306	22480003	EL, 0.1mfd, 50V
C307, 308	22360332	CD, 0.068mfd, M
C309, 310	22349332	CD, 3300pF, K
C311, 312	22349222	CD, 2200pF, K
C313	22362101	CD, 100pF, K
C314	22362101	CD, 100pF, K
C315, 316	22349102	CD, 1000pF, K
C317, 318	22480003	EL, 0.1mfd, 50V
C319, 320	22485100	EL, 10mfd, 16V
C321, 322	22488109	EL, 1mfd, 50V
C323, 324	22360332	CD, 0.068mfd, M
C325, 326	22360330	CD, 0.033mfd, M
C327, 328	22488478	EL, 0.47mfd, 50V
C329, 330	22482101	EL, 100mfd, 6.3V
C331, 332	22362101	CD, 100pF, K
C333, 334	22343103	CD, 0.01mfd, M
C335, 336	22483101	EL, 100mfd, 10V
C337, 338	22483102	EL, 1000mfd, 10V
C339, 340	22370323	PF, 0.15mfd, K
C341	22440611	EL, 470mfd, 16V
C342	22482101	EL, 100mfd, 6.3V
C343	22485331	EL, 330mfd, 16V
C344	22483471	EL, 470mfd, 10V
C345, 346	22349221	CD, 220pF, K
C347, 348	22362101	CD, 100pF, K
C349, 350	22349102	CD, 1000pF, K
C351, 352	22349222	CD, 2200pF, K
C401	22488478	EL, 0.47mfd, 50V
C402	22485100	EL, 10mfd, 10V
C403, 404	22349472	CD, 4700pF, K
C406	22483330	EL, 33mfd, 10V

Symbol No.	Part No.	Description
C407, 408	22349102	CD, 1000pF, K
C409, 410	22485100	EL, 10mfd, 16V
C411, 412	22362101	CD, 100pF, K
C413, 414	22488339	EL, 3.3mfd, 50V
C415, 416	22372103	CD, 0.01mfd, K
C417, 418	22361330	CD, 33pF, J
C419, 420	22483330	EL, 33mfd, 10V
C421, 422	22488478	EL. 0.47mfd, 50V
C423	22483221	EL, 220mfd, 10V
C424	22483470	EL, 47mfd, 10V
C425, 426	22349472	CD, 4700pF, K
C427	22488478	EL, 0.47mfd, 50V
C428	22485100	EL, 10mfd, 16V
C432	22488228	EL, 0.22mfd, 50V
C433, 434	22342223	CD, 0.022mfd, Z
C435	22485100	EL, 10mfd, 16V
C436	22342223	CD, 0.022mfd, Z
C437	22343103	CD, 0.01mfd, M
C445, 446	22488109	EL, 1mfd, 50V
C447, 448	22488109	EL, 1mfd, 50V
C501	22483221	EL, 220mfd, 10V
C502	22372333	PF, 0.033mfd, K
C503	22372103	PF, 0.01mfd, K
C504	22321040	PF, 5600pF, K
C505	22321210	PF, 0.1mfd, K
C506	22321039	PF, 3900pF
C507	22321034	PF, 1500pF, K
C508	22321029	CD, 560pF, K
C509	22485221	EL, 220mfd, 16V
C510, 511	22488478	EL, 0.47mfd, 50V
C512	22360331	PF, 0.047mfd, M
C601, 602	22485100	EL, 10mfd, 16V
C603, 604	22372682	PF, 6800pF, K
C605, 606	22372333	CD, 0.033mfd, K
C607, 608	22485100	EL, 10mfd, 16V
C609, 610	22372473	PF, 0.047mfd, K
C611, 612	22488228	EL, 0.22mfd, 50V
C613, 614	22488478	EL, 0.47mfd, 50V
C615, 616	22372472	CD, 4700pF, K
C617, 618	22488109	EL, 1mfd, 50V
C619, 620	22349332	CD, 3300pF, K
C621, 622	22488109	EL, 1mfd, 50V
C623, 624	22488478	EL, 0.47mfd, 50V
C625, 626	22488109	EL, 1mfd, 50V
C627, 628	22343103	CD, 0.01mfd, M
C629, 630	22349152	CD, 1500pF, K
C630	22349332	CD, 3300pF, K
C631	22349222	CD, 2200pF, K
C632	22485100	EL, 10mfd, 16V
C633	22342223	CD, 0.022mfd, Z
C634	22483101	EL, 100mfd, 10V
C635, 636	22362101	CD, 100pF, K
C637	22483470	EL, 47mfd, 10V
C638	22488479	EL, 4.7mfd, 50V

Symbol No.	Part No.	Description
C640	22349221	CD, 330pF, K
C901	22370323	PF, 0.15mfd, K
⚠ C903	22440604	EL, 2200mfd, 16V
C904	22342223	CD, 0.022mfd, Z
C905, 906	22483331	EL, 330mfd, 10V
C907	22485221	EL, 220mfd, 16V
C908	22342473	CD, 0.047mfd
C909	22349681	CD, 680pF, K
C910, 911	22342223	CD, 0.022mfd, Z
C912	22440611	EL, 470mfd, 16V
CD974	22342223	CD, 0.022μF, Z

RESISTORS

1. **Resistors are Fixed Carbon Film ¼W, ±5% unless otherwise noted.**
   K = 1000, M = 1000000
2. **PRC is short for the printed resistor circuit.**
   If replacement of the resistor in PRC is required, please use the substitutional fixed carbon film resistor of ¼W, ±5% according to the following list.

R001	22584103	10K ohm, 1/6W
R002	22584101	100 ohm, 1/6W
R003	22545222	2.2K ohm (PRC)
R005	22584681	680 ohm (PRC)
R006	22584223	22K ohm, 1/6W
R008	22584330	33 ohm, 1/6W
R009	22584221	220 ohm, 1/6W
R011	22545183	18K ohm (PRC)
R012	22545183	18K ohm (PRC)
R013	22545183	18K ohm (PRC)
R015	22545223	22K ohm (PRC)
R016	22545102	1K ohm (PRC)
R017	22584221	220 ohm, 1/6W
R018	22657285	Variable, 10K-B, Fine Tuning
R019	22584681	680 ohm, 1/6W
R022	22545472	4.7K ohm (PRC)
R023	22584473	47K ohm, 1/6W
R024	22584330	33 ohm, 1/6W
R102	22545470	47 ohm (PRC)
R103	22584154	150K ohm, 1/6W
R105	22545103	10K ohm (PRC)
R106	22584331	330 ohm, 1/6W
R107	22584183	18K ohm, 1/6W
R108	22545104	100K ohm (PRC)
R109	22545104	100K ohm (PRC)
R110	22584470	47 ohm, 1/6W
R111	22545102	1K ohm (PRC)
R112	22584102	1K ohm, 1/6W
R113	22545103	10K ohm (PRC)
R114	22584561	560 ohm, 1/6W
R115	22584472	4.7K ohm, 1/6W
R116	22545102	1K ohm (PRC)
R201	22545102	1K ohm (PRC)

Symbol No.	Part No.	Description
R202	22545562	5.6K ohm (PRC)
R203	22658599	Semi-fixed Variable 10K-B, Free Run
R204	22545154	150K ohm (PRC)
R205, 206	22584332	3.3K ohm, 1/6W
R207, 208	22545822	8.2K ohm (PRC)
R209, 210	22545103	10K ohm (PRC)
R211	22545102	1K ohm (PRC)
R212	22584221	220 ohm, 1/6W
R301	22584332	3.3K ohm, 1/6W
R302	22545332	3.3K ohm (PRC)
R303	22584823	82K ohm (PRC)
R304	22545823	82K ohm (PRC)
R305, 306	22545103	10K ohm (PRC)
R307, 308	22545563	56K ohm (PRC)
R309, 310	22545333	33K ohm (PRC)
R311 ~ 318	22657284	Variable, 50K-B, 2 Gang
R320, 319	22545472	4.7K ohm (PRC)
R321, 322	22545332	3.3K ohm (PRC)
R323	22545822	8.2K ohm (PRC)
R324	22584822	8.2K ohm (PRC)
R325/326	22657283	Variable, 50K-B, Volume
R327, 328	22545152	1.5K ohm (PRC)
R329, 330	22545152	1.5K ohm (PRC)
R331, 332	22584123	12K ohm, 1/6W
R333, 334	22545392	3.9K ohm (PRC)
R335, 336	22545152	1.5K ohm (PRC)
R337, 338	22584152	1.5K ohm (PRC)
R340	22584822	8.2K ohm, 1/6W
R341, 342	22545392	3.9K ohm (PRC)
R343, 344	22545152	1.5K ohm (PRC)
R345, 346	22545152	1.5K ohm (PRC)
R347, 348	22584822	8.2K ohm, 1/6W
R349, 350	22545392	3.9K ohm (PRC)
R351, 352	22545152	1.5K ohm (PRC)
R353, 354	22545152	1.5K ohm (PRC)
R355, 356	22584822	8.2K ohm, 1/6W
R357, 358	22545392	3.9K ohm (PRC)
R359, 360	22545332	3.3K ohm (PRC)
R361, 362	22584223	22K ohm, 1/6W
R363, 364	22584101	100 ohm, 1/6W
⚠ R365	22500272	2.2 ohm, Fusible Resistor
R366	22584151	150 ohm, 1/6W
R367	22584334	330K ohm, 1/6W
R368	22584334	330K ohm, 1/6W
R369, 370	22545151	150 ohm (PRC)
R401, 402	22545123	12K ohm (PRC)
R403, 404	22545153	15K ohm (PRC)
R405, 406	22545272	2.7K ohm (PRC)
R407, 408	22584103	10K ohm, 1/6W
R409	22545472	4.7K ohm (PRC)
R410	22584272	2.7K ohm, 1/6W
R411, 412	22545563	56K ohm (PRC)

Symbol No.	Part No.	Description
R413, 414	22545154	150K ohm (PRC)
R415, 416	22545682	6.8K ohm (PRC)
R417, 418	22584334	330K ohm, 1/6W
R419	22545562	5.6K ohm (PRC)
R420	22584562	5.6K ohm, 1/6W
R421/422	22658184	Variable, 10K ohm-B
R423, 424	22584225	2.2M ohm, 1/6W
R425, 426	22584225	2.2M ohm, 1/6W
R427	22545123	12K ohm (PRC)
R428	22584183	18K ohm, 1/6W
R429	22584101	100 ohm, 1/6W
R430	22584225	2.2M ohm, 1/6W
R431, 432	22545103	10K ohm (PRC)
R433, 434	22584222	2.2K ohm, 1/6W
R435, 436	22584272	2.7K ohm, 1/6W
R437	22545334	330K ohm (PRC)
R438	22584334	330K ohm, 1/6W
R439	22545332	3.3K ohm (PRC)
R441	22584333	33K ohm, 1/6W
R442	22545333	33K ohm (PRC)
R443	22584103	10K ohm, 1/6W
R444, 445	22545103	10K ohm (PRC)
R446	22545103	10K ohm (PRC)
R454	22545104	100K ohm (PRC)
R455	22584102	1K ohm, 1/6W
R456	22545104	100K ohm (PRC)
R457, 458	22545122	1.2K ohm (PRC)
R459	22545823	82K ohm (PRC)
R460	22584225	2.2M ohm, 1/6W
R463, 464	22584225	2.2M ohm, 1/6W
R465, 466	22584274	270K ohm, 1/6W
R467, 468	22584103	10K ohm, 1/6W
R469	22584225	2.2M ohm, 1/6W
R503	22584220	22 ohm, 1/6W
R504	22584680	68 ohm, 1/6W
R505	22584339	3.3 ohm, 1/6W
R506	22584102	1K ohm, 1/6W
R507	22584332	3.3K ohm, 1/6W
R508	22584220	22 ohm, 1/6W
R510	22584221	220 ohm, 1/6W
R511	22545683	68K ohm (PRC)
R512, 513	22545152	1.5K ohm (PRC)
R514, 515	22545152	1.5K ohm (PRC)
R516	22545152	1.5K ohm (PRC)
R601	22545153	15K ohm (PRC)
R602	22584153	15K ohm, 1/6W
R603, 604	22545153	15K ohm (PRC)
R605, 606	22584102	1K ohm, 1/6W
R607, 608	22584474	470K ohm, 1/6W
R609, 610	22584332	3.3K ohm, 1/6W
R611, 612	22584473	47K ohm, 1/6W
R613, 614	22545332	3.3K ohm (PRC)
R615, 616	22545223	22K ohm (PRC)

Symbol No.	Part No.	Description
R617, 618	22545103	10K ohm (PRC)
R619, 620	22584153	15K ohm, 1/6W
R621	22545332	3.3K ohm (PRC)
R622	22545104	100K ohm (PRC)
R623, 624	22584124	120K ohm, 1/6W
R625, 626	22584561	560 ohm, 1/6W
R627, 628	22545682	6.8K ohm (PRC)
R630	22545223	22K ohm (PRC)
R631	22584104	100K ohm, 1/6W
R632	22584102	1K ohm, 1/6W
R633	22584563	56K ohm, 1/6W
R634	22584103	10K ohm, 1/6W
R635	22545103	10K ohm (PRC)
R636	22584183	18K ohm, 1/6W
R637	22584101	100 ohm, 1/6W
R638	22545332	3.3K ohm (PRC)
R639	22584271	270 ohm, 1/6W

Symbol No.	Part No.	Description
⚠ R901	22500170	5.6 ohm, Fusible Resistor
⚠ R902	22500272	2.2 ohm, Fusible Resistor, 1/6W
R903	22584331	330 ohm, 1/6W
R904	22545104	100K ohm (PRC)
R905	22584221	220 ohm, 1/6W
R906	22584222	2.2K ohm, 1/6W
R909	22584181	180 ohm, 1/6W
R910	22584102	1K ohm, 1/6W
ACCESSORIES		
⚠ AC01	22176541	Power Supply Cord, TE
⚠ AC01	22176578	Power Supply Cord, TU
AC02	22903592	Owner's Manual
AC04	22900214	Label, Dolby

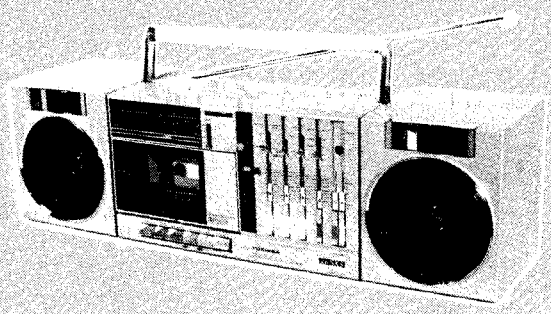
TOSHIBA CORPORATION
2-1, GINZA 5-CHOME, CHUO-KU, TOKYO 104, JAPAN

SERVICE DATA
FILE NO. 113-328
SUPPLEMENT A

TOSHIBA

STEREO RADIO CASSETTE RECORDER

RT-SX3



This supplement pertains to the FR and IT model.
For additional information refer to SERVICE DATA for RT-SX3, FILE No. 110-318.
Specification stated in the original service remain unchanged.

Symbol No.	Part No.	Description
		CABINET PARTS
301	25883156	Front Cabinet Ass'y, FR
338	25883158	Back Speaker Box Ass'y, Right, FR
338	25883155	Back Speaker Box Ass'y, Right, IT
349	25883157	Back Speaker Box Ass'y, Left, FR
349	25883154	Back Speaker Box Ass'y, Left, IT
357	25808670	Nameplate, Main, FR
357	25808646	Nameplate, Main, IT
		ACCESSORIES
AC02	22903871	Owner's Manual, FR

F R, IT

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